SONY

PCS-TL50P

All-in-one Videoconferencing System

Imagine a world in which you can sit at your desk working at your PC when suddenly, instead of the phone ringing, a window pops up on your PC display and instantly you are on a videoconference call. With the new Sony PCS-TL50P Videoconferencing System this vision now becomes reality.

The all-in-one PCS-TL50P Videoconferencing System is ideal for executive offices, SOHOs (Small Office Home Office), and small meeting spaces. It's very easy to install, because everything is built-in, and preprogramming the unit is also very simple with the supplied remote commander and intuitive on-screen GUI (Graphical User Interface). Moreover, the unit's user-friendly design makes placing and receiving calls as easy as pressing a button – even easier than making a phone call.

Boasting a large 20-inch wide display that doubles as a PC monitor, PCS-TL50P makes multitasking easy. There are several layout options available, including multiple screens and Picture-and-Picture, which can be used to display the other party while you continue to work on your PC application. By multitasking in this way, productivity can be increased twofold. What's more, the data-sharing function makes it possible to send and receive[1] any kind of high-resolution data during your videoconference.

With all of these features and more, the sleek, stylish, and sophisticated PCS-TL50P will make a great addition to your office or small meeting spaces. Increased productivity and improved communication, including executive decision-making, are all possible with the PCS-TL50P.

[1]Sending data requires the optional PCSA-DSB1S Data Solutions Box (DSB); the DSB is not required for receiving data.

www.sonybiz.net/videoconference

You make it a Sony

Features

■ All-in-one design

Unlike typical videoconference systems, the PCS-TL50P has everything you need built into a single package that can double as a PC monitor. Its bright 20-inch wide display can properly present images in both 16:9 and 4:3 aspect ratios. The unit also has a built-in digital PTZ (Pan / Tilt / Zoom) camera that is used to precisely capture images, and a privacy shutter that can be closed at times when you prefer not to receive videoconference calls. In addition, built-in speakers and microphones provide high audio quality during videoconferences.

■ Flexible and scalable

With a built-in Ethernet interface, the PCS-TL50P can be configured by simply plugging it into a LAN (Local Area Network) and making a few quick settings on an intuitive setup menu. The PCS-TL50P supports connections up to 2 Mbps over IP networks, making high-quality videoconferencing possible across company networks, leased lines, or DSL connections from home.

One-touch dialing GUI

An optional ISDN network adapter is available for videoconferencing over ISDN networks; the PCSA-B384S or PCSA-B768S network adaptors can connect up to a maximum of 3 or 6 ISDN lines respectively. This gives you a connection speed up to 384 Kbps or 768 Kbps connecting to any combination of other videoconference systems, fixed or mobile telephones.

■ Powerful built-in multipoint conferencing capabilities

The PCS-TL50P[2] can be configured to communicate with up to 5 other sites simultaneously, whether they are videoconference systems or (mobile) telephones, connected over (any mix of) IP, DSL or ISDN lines. In cascaded mode, you can even bring up to 10 sites into one videoconference. The high bandwidth of 384 Kbps per site in such a conference ensures superb video and audio quality, while sending large files from a PC.

■ Ease-of-use

- **User-friendly remote commander / Intuitive GUI**
  The PCS-TL50P is thoughtfully designed with an intuitive on-screen user interface and a user-friendly Remote Commander. Displaying only required information, the on-screen menus are complete and comprehensive and allow easy navigation; in addition, text messages are displayed at the bottom of the screen for additional guidance. Conveniently situated one-touch operation buttons on the Remote Commander make it quick and simple to change display layouts, capture images, and place calls.

- **One-touch dialing**
  A unique feature of the PCS-TL50P is one-touch dialing, which allows you to easily connect to any of your listed contacts with the touch of a button. By preprogramming your contact information, picture icons and contact names will appear at the bottom of the main menu. Calls are placed automatically by simply pressing the button on the remote commander that corresponds to the picture icon. Up to 30 contacts can be preprogrammed.

■ Memory Stick™ for Private Phonebook

If multiple users choose to use a single PCS-TL50P, each user can store their personal contact information on a Memory Stick™ media card as a Private Phonebook. After inserting the Memory Stick™ into the PCS-TL50P, the unit automatically recognises and activates the Private Phonebook, allowing users to place calls from their personal contacts information.

■ Data-sharing capabilities

Documents on your PC can be shared with your videoconferencing counterparts at the touch of a button. All parties continue to see and hear each other as presentations, spreadsheets or drawings are shown simultaneously. Any kind of image that can be displayed on a PC can be sent or received in native XGA resolution, allowing all participants to clearly see the data during a videoconference.

[2]The MCU functionality requires installation of optional MCU sofware for communication over IP (PCS-323M1) or ISDN (PCS-320M1). Installing both options enables the mixed MCU function. Sending data from a PC requires installation of the optional Data Solution Box (PCSA-DSB1S). Receiving data does not require any option.

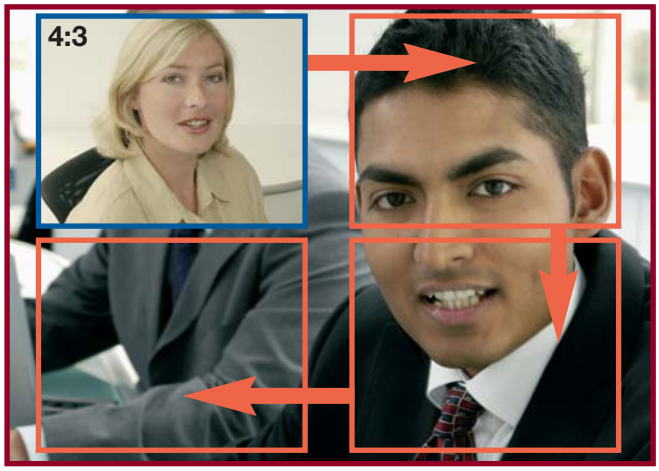
■ Picture-in-Picture / Picture-and-Picture

With the choice of Picture-in-Picture or Picture-and-Picture (split screen) layout options, both near and far-end video and/or data can be displayed in a manner that is pleasing to the eye.

P in P

There are several ways to display Picture-in-Picture on the screen. It normally shows the so called Far-End on the big screen and the smaller insert is the near side (self view).

16:9



Users can set this PiP inset in either of the 4 corners by pushing the PiP button on the remote control

16:9

Alternatively, when data is sent by the Data Solution Box or received from the Far-End, the P in P mode can show live PC Data and the Far-End image.

■ Multitasking (Simultaneous videoconference / PC)

With the PCS-TL50P, you can continue to work on your PC even while you are on a videoconference call. This unique feature is ideal for busy executives who need to have non-stop access to their files while they are in a videoconference.

■ Excellent video quality

The PCS-TL50P supports the latest standard for videocoding (H.264) that doubles the quality of conventional standards at the same bandwidth. Compatibility with older systems is maintained by supporting all the other relevant industry standards.

Optional Accessories

PCSA-DSB1S
Data Solutions Box
Dimensions: 240 (W) x 37 (H) x 180 (D) mm
Mass: 1.1 kg

PCSA-B384S
ISDN unit for 3 lines,
Dimensions: 166 (W) x 33.4 (H) x 128 (D) mm
Mass: 0.40 kg

PCSA-B768S
ISDN unit for 6 lines
Dimensions: 166 (W) x 33.4 (H) x 128 (D) mm
Mass: 0.40 kg

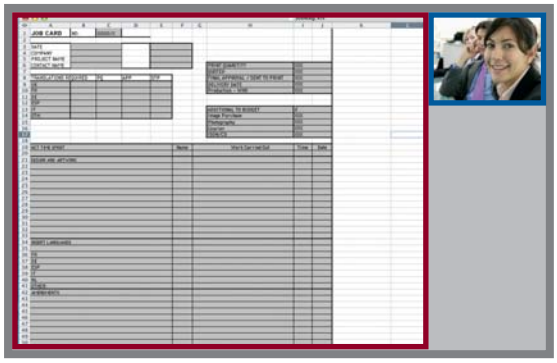
P and P

There are two layouts to display picture and picture. Again you can show both far end plus near end video, or alternatively, data plus video.

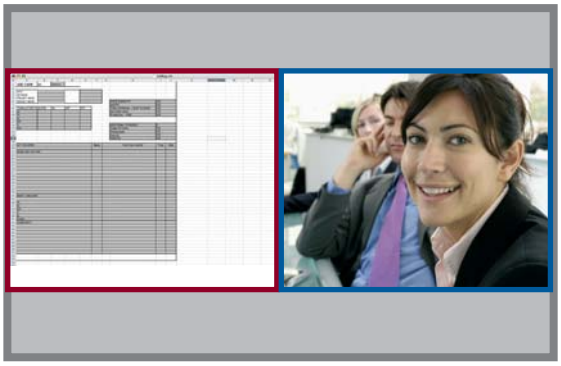
4:3

4:3

4:3



4:3



■ Superb audio quality

Supporting MPEG-4 AAC (Advanced Audio Coding) at 14 kHz, PCS-TL50P produces clear, natural-sounding audio. Doubling the frequency range of conventional videoconferencing systems, every participant can be heard with unprecedented clarity. The dual-integrated speakers and microphones, and a built-in echo canceller, offer crisp and clear sound quality while keeping the size of this videoconference system small. Additional microphones or a headset can be connected if required.

■ Memory Stick support

The PCS-TL50P supports Memory Stick™ media to store and retrieve the Private Phonebook, save screenshots during a conference and show show slides or pictures from your camera. For installation and maintenance, new firmware, optional multipoint software or system settings can be installed simply from a Memory Stick™.

PCS-A1
Microphone
Dimensions: Ø 74 x 16 (H) mm
Mass: 0.17 kg

PCS-320M1
H.320 MCU Software

PCS-323M1
H.323 MCU Software

■ Secure videoconferencing – Advanced Encryption Standard (AES)

The PCS-TL50P supports the Advanced Encryption Standard (AES), ensuring that video, audio and data conferences transmitted over local area networks or the Internet are safeguarded against unauthorized interception. AES can be activated by entering an encrypted matching password on both systems in a videoconference before setting up the connection. AES is supported for conferences between two PCS-TL50P systems or in combination with the PCS-1P, PCS-11P or PCS-G70P systems.

■ Wireless LAN capability

By connecting an external wireless LAN device to the network interface of the PCS-TL50P, the unit can be used on a wireless network.

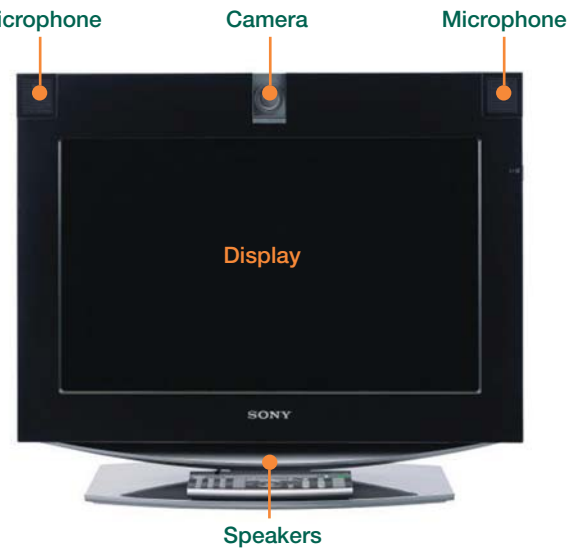
■ QoS (Quality of Service) enhancement functions

Maintaining consistent picture and audio quality levels is a common concern when running videoconferences over the Internet and data networks. The PCS-TL50P offers advanced functions to enhance Quality of Service and provide a more satisfying, reliable and productive videoconference.

■ Sony Prime Support®

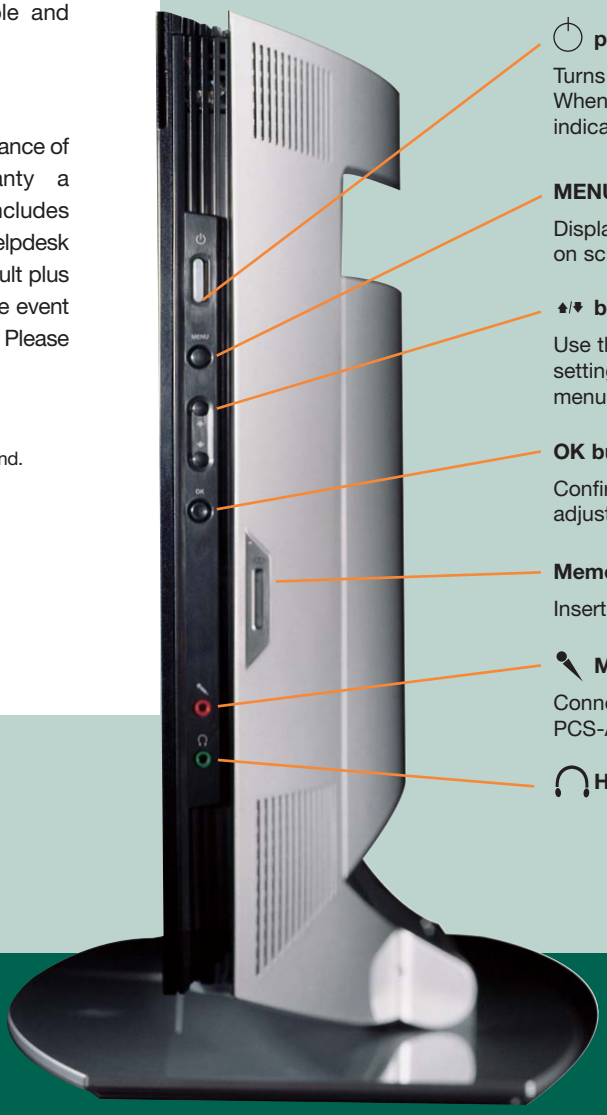
The PCS-TL50P is backed by the additional assurance of a 2-year Prime Support extended warranty a comprehensive after-care programme that includes telephone assistance during installation and helpdesk support, free repairs in the event of a hardware fault plus supply of a loan unit collection and delivery* in the event of your PCS-TL50P requiring factory repairs. Please contact your Sony dealer for more information.

*Collect & Deliver covers EU, Iceland, Norway and Switzerland.



With its compact design and sleek looks, the Sony PCS-TL50P will enhance any office space.

PCS-TL50P Right Side



power switch and indicator

Turns the system on/off.
When the power is turned on, the indicator lights in green.

MENU button

Displays the picture adjustment menu on screen.

▲/▼ buttons

Use these buttons to select the setting item of the picture adjustment menu or adjust the selected item.

OK button

Confirms the selected item or the adjusted value.

Memory Stick™ slot

Insert a Memory Stick™ media into this slot.

Microphone jack (minijack)

Connect to the optional PCS-A1 or PCS-A300 microphone.

Headphones jack

Supplied Accessories

PCS-RTL50
Remote Commander

PCS-AC19V8
AC Adaptor

PCS-TL50P Specifications

VIDEO	
Signal system	PAL
Standards	H.261, H.263, H.263+, H.263++, H.264 H.263 Interlaced SIF MPEG4 SP@L3
Resolution	QCIF (176 x 144) CIF (352 x 288)
Frame rate	7.5/10/15/30 fps in H.261 1/2/3/5/6/7.5/10/15/30 fps in H.263 60/50 filed per sec for NTSC/PAL in Interlace mode
Video Bitrate	Up to 768kbps in H.320 (incl. audio) Up to 2 Mbps(1920kbps) in H.323 (incl. audio)
Graphics Resolution	XGA: H.263, With PCSA-DSB1S 4CIF: H.261 Annex D and H.263 Base

AUDIO	
Bandwitch and coding	G.711: 3.4kHz at 56k/64kbps G.722: 7.0kHz at 48k/56k/ 64kbps G.722.1: 7.0kHz at 24kbps /32kbps (H.323 only) G.728: 3.4kHz at 16kbps G.723.1: 3.4kHz at 5.3k/6.3kbps (H.323 only) G.729: 3.4kHz at 8kbps (H.323 only) MPEG4 AAC mono: 14KHz at 64kbps/96kbps
Echo Cancellation	Noise Suppressor included Automatic Gain Control included

Picture in Picture	
Sub screen size	equiv. 4.3 inch (256X192 pixels)
Position	One of four corners of main screen

Picture and Picture (1)	
Main screen size	equiv. 17.3 inch (1024X768 pixels)
Sub screen size	equiv. 4.3 inch (256X192 pixels)
Position	Sub screen is located at right-top of the display

Picture and Picture (2)	
Main/Sub screen size	equiv. 10.8 inch (640X480 pixels)
Position	Both screens are located side-by-side

Supported ITU-T Standard (except Video and Audio)

H.320, H.323, H.221, Bonding, H.225.0, H.225.0, H.281, FECC, H.245, H.239, T.120

Supported Network Protocol

TELNET (Server), HTTP (Server), FTP (Server), SNMP (Agent), DNS (Client), DHCP (Client), RTP/RTCP, TCP/UDP

Internal MCU

Up to 6 sites of video and audio in ISDN operation (PCS-320M1)
Up to 6 sites of video and audio in IP operation (PCS-323M1)
Up to 10 sites of video and audio in Cascading mode
IP/ISDN bridging

Control Port

LAN(Ethernet)

Lip Synchronization

Manual On/Off

Security

AES encryption
Password Protection

QoS

Adaptive Rate Control
Real-time ARQ (Automatic Repeat reQuest)

ADSL/FTTH Support

PPPoE

CAMERA UNIT	
CCD	1/3 CCD
Effective Resolution	768(H) x 494(V)
Picture Format	NTSC
Horizontal Resolution	450TV line
Lens	f=4.0mm (F2.0)
Focus	Pan Focus
IRIS	Auto (Digital AGC)
Zoom ratio	x2 and above (in digital form)
Pan	+/- 35 ° (in digital form)
Tilt	+/- 26 ° (in digital form)
Preset Position	6 points
S/N	48dB
Others	Back Light Shooting Auto White Balance

Integrated Display	
LCD	20 inch widescreen TFT LCD
Aspect Ratio	16:9
Resolution	1280 x 768 (WXGA)
Brightness	400 Cd / m^2 (MAX)
Response	within 15ms
Contrast Ratio	500:01:00
Viewing Angle	160°and above
Color	16.7million colors

Integrated Microphone	
Microphone	Mono-Directional Microphone x 2
Frequency range	15kHz

Integrated Speaker	
Speaker	3W x 2

I/F of PCS-TL50	
Network I/F	10Base-T/100Base-Tx x1 External ISDN Unit I/F x1
Audio I/F	External Microphone In x1 External Phone Out (Pin) x1
Offline PC I/F	RGB Input x1 (D-Sub15) Line Input (Mini) x1 (Stereo mini)
Offline V/A I/F	Composite Input x1 Line Input (RCA) x2 (Stereo Lx1 Rx1)
Memory Stick I/F	Memory Stick Slot x1
PW I/F	AC Adaptor x1 PW Switch x1
DSB I/F	Dedicated Cable x1 (Connector: D-Sub15)
Others	Ground x1

Environment	
Operating Temperature	5°C ~ 35°C
Operating Humidity	20% ~ 80%
Storage Temperature	- 20°C ~ 60°C
Storage Humidity	20% ~ 80%

Power Requirement

AC220V to 240V, 50/60Hz

Power Consumption

DC19.5V, 7.7A

Remote Commander (PCS-RTL50)	
Format	Wireless SIRCS
Control	DC 3V Manganese Battery X2

Dimensions and Mass	
W x H x D (mm) PCS-TL50P	528 x 445 x 110 (Excl. Projected Parts) x 265 (Stand)
Weight (kg) PCS-TL50P	10 Kg
W x H x D (mm) PCS-RTL50	167.4 x 19.0 x 87.3 (Excl. Projected Parts)

Standard Accessories	
PCS-TL50P	PCS-TL50P (Main Unit) x 1
PCS-RTL50 (Remote Commander) x 1	
PCS-AC19V8 (AC Adaptor) x 1	
Manganese Battery for Remote Commander x 2	
Quick Operation Guide x 1	
Operation Manual CD-ROM x 1	
W/W Warranty Card x 1	

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